

# MULTI-MICROPLATE GENIE®

## TIMED MICROPLATE MIXER OPERATING INSTRUCTIONS

Models SI-4000 through SI-4006



70 Orville Drive, Bohemia, NY 11716 U.S.A.  
(631) 567-4700 • Fax: (631) 567-5896 • Toll Free: 888-850-6208  
Customer Service: [custsvc@scientificindustries.com](mailto:custsvc@scientificindustries.com)  
[www.scientificindustries.com](http://www.scientificindustries.com)

The Multi-MicroPlate Genie® has been optimized for high speed mixing of almost any microplate, regardless of type or material of construction. The orbit of motion and the speed are designed to achieve consistent mixing within all microplate wells. GENIE™ mixers are the "Gold Standard" for laboratory mixers and the quality and reliability that you have come to know so well are characteristics that are by design, an integral part of all GENIE™ products.

## OPERATING INSTRUCTIONS

We recommend you retain the original packaging for 90 days in case you need to return the product for any reason to your distributor or Scientific Industries.

1.0 - Plug the line cord into a properly grounded electrical outlet.

**(120 VAC for the SI-4000 model; 230/240 VAC for the SI-4001 through SI-4004 and SI-4006 models; 100 VAC for the SI-4005 model).**

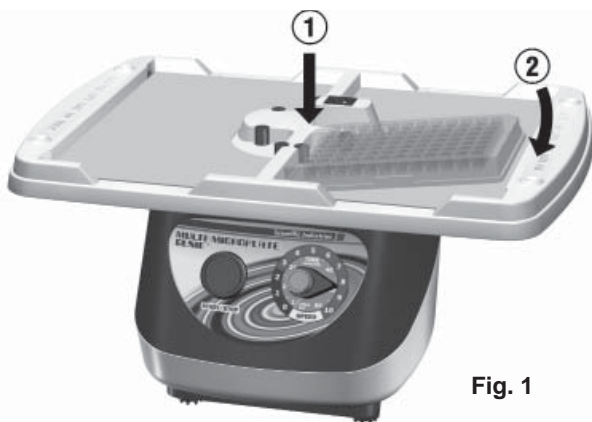


Fig. 1

2.0 - Place a microplate into the Multi-MicroPlate Genie as shown in Fig. 1. Tip the microplate slightly down toward the inside, and bank the corner into the two rubber bumpers. It is not necessary to tilt the plate excessively. Push the plate the rest of the way down onto the top of the Multi-MicroPlate Genie and release. The other side of the microplate will be held in place by the beveled edge on the opposing side of the Multi-MicroPlate Genie. Up to four microplates can be installed, 8 with optional accessory tray.

3.0 – The Multi-MicroPlate Genie mixer has the following modes of operation:

### 3.1 – TIMED MODE- (1 to 60 minutes)

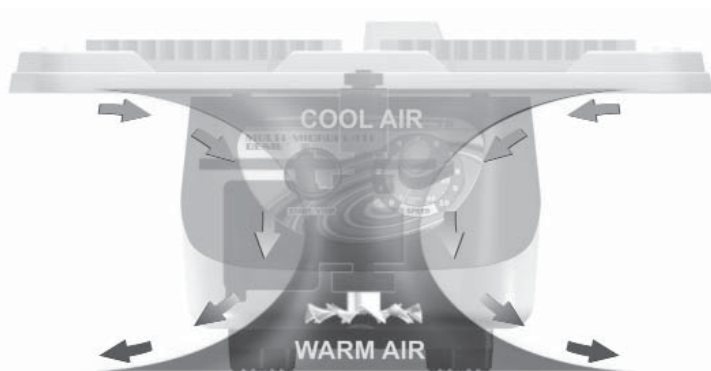
The Timed Mode allows for unattended operation that is timed from 1 to 60 minutes. To initiate timed operating mode, with the microplate in place, set the 1 to 60 minute timer (gray knob and gray scale) to the desired run time. The Multi-MicroPlate Genie is OFF until the push-button switch is depressed and then released. This will start the mixing action of the Multi-MicroPlate Genie. The mixer will run until the set time has elapsed. If for any reason you wish to stop the mixing action before the set time has elapsed, simply depress the push-button for a second time and release. The mixer will stop. Depressing the push-button a third time will initiate a completely new timed cycle.

### 3.2 – CONTINUOUS MODE

The continuous mode allows for unattended operation that will continue indefinitely until you stop the operation by depressing the push-button switch. To initiate Continuous Mode, turn the gray timer knob fully counter-clockwise until you feel the "click" and the knob is in the detent "TIMER OFF" (continuous mode) position. Next, depress the push-button switch and release. The Multi-MicroPlate Genie mixer will start and continue to run, unattended, until you once again depress the push-button switch and release. If you wish to restart the mixer once again, simply depress the push-button switch for a moment and release.

**Note: The speed control switch should be set between positions 3 and 10 to enable the mixing action to start. After the action has started, you may, if desired, reduce the speed below position 3 for the duration of the run. Before re-starting the mixer, re-set the speed control to a setting higher than position 3.**

4.0 – With prolonged use, the Multi-MicroPlate Genie® mixer may become warm to the touch. The motor will radiate a certain amount of heat that will be dissipated by the fan in the bottom of the unit.



**Heat will not be transferred to your microplates.** The fan (located in the bottom of the unit) directs air downward and out of the unit. As a result, room air is constantly drawn into the unit underneath the tray that holds the microplates, insuring that samples will not be heated.

#### ACCESSORIES

The MULTI-MICROPLATE ACCESSORY TRAY (catalog no. SI-4010) will double the Multi-MicroPlate Genie's mixing capacity to 8 microplates. With the twist of a simple fastener, this accessory tray sits on top of the tray that is attached to the unit and can be added and removed in seconds.



A kit is also available for holding PCR Plates onto your Multi-MicroPlate Genie (catalog no. 0K-0400-901).

**NOTE:** A Digital Pulse version is available for applications requiring precise speed control, especially at low levels. Contact your local distributor or visit [scientificindustries.com](http://scientificindustries.com) for more information.

**⚠ CAUTION! Do not lift the Multi-MicroPlate Genie® by the tray.**

**⚠ CAUTION! Failure to follow these operating instructions can compromise the user's safety.**

### Care and Handling

The Multi-MicroPlate Genie mixer should be given the care normally required for any electrical appliance. Avoid wetting or unnecessary exposure to fumes. The finish can be washed (after unplugging) with water and soap or detergents, using a cloth or sponge. Keep the unit clean by immediately blotting any spills. Replacement parts are available through most laboratory equipment distributors or directly from Scientific Industries.

**⚠ CAUTION! Unplug from power before cleaning. Do not immerse.**

**⚠ CAUTION! Do not use Multi-MicroPlate Genie in hazardous atmospheres or with hazardous materials.**

**⚠ CAUTION! Do not use Multi-MicroPlate Genie to mix flammable materials**

### SPECIFICATIONS

The Multi-MicroPlate Genie mixer is classified as "Installation Category 2"



Environmental: 0°C – 38°C (32°F-100°F), 95% Humidity max.

MODEL	POWER	REQUIRED AMPS
SI-4000	120V	0.65
SI-4001	230V , No Plug	0.5
SI-4002	230V, Euro Plug	0.5
SI-4003	230V, British Plug	0.5
SI-4004	230V, Swiss Plug	0.5
SI-4006	240V, Australian Plug	0.5
SI-4005	100V	1.0

Speed	Approx. 750-3200 RPM (60Hz) Approx. 750-2700 RPM (50Hz)
Time	1 – 60 minutes or continuous
Vortexing Orbit	1.0mm diameter
Maximum Load	0.5 kg (1.1 lb)
Weight:	3.7 Kg (8.1 lb)
Shipping Weight:	4.5 Kg (9.9 lbs.)
Dimensions (L x W x H):	335 x 240 x 165 (mm) 13.2 x 9.4 x 6.5 (in)

Replacement parts for your Multi-MicroPlate Genie are available. Visit [scientificindustries.com](http://scientificindustries.com) for more information.